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# **THE PRINCIPIA**

**An  
Educational Institution  
For Boys and Girls**

**Founded 1898**

**ST. LOUIS, MO.**

**This Book Published, May 1916**







PRINCIPIA HALL



## SCHOOL CALENDAR

1916-1917

- September 13—New pupils arrive.  
14-15—Preliminary school for new pupils.  
16—Former pupils return.  
Preliminary school for new pupils.  
18—Formal opening of fall term.
- November 30—Thanksgiving day—holiday.
- December 21—Christmas vacation commences.
- January 3—Vacation ends—pupils return.  
4—School re-opens.  
25—Formal opening spring term.
- May 26—May Day Festival.  
31—Class Day.
- June 1—Commencement.  
2—Annual Meeting Alumni Association.  
Pupils leave for home.

## **TRUSTEES OF THE PRINCIPIA**

MINNIE MOREY HOWARD, St. Louis

CLARENCE H. HOWARD, St. Louis

ARTHUR T. MOREY, St. Louis

MRS. VERONICA W. MOREY, St. Louis

MRS. MARY KIMBALL MORGAN, St. Louis

WILLIAM E. MORGAN, St. Louis

FRANK OBEAR, St. Louis

MRS. MARGARET D. OBEAR, St. Louis

JOHN B. WILLIS, Boston

E. RUSSELL FIELD, St. Louis

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WILLIAM E. MORGAN, Treasurer

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*Finance*—Messrs. Howard, Morey and Field.

*Endowment Fund*—Messrs. Field, Morgan and J. L. Christie,

'10. (Special Alumni Representative.)

# FACULTY

## PRINCIPAL

MRS. MARY KIMBALL MORGAN

## ASSISTANT TO THE PRINCIPAL

FREDERIC E. MORGAN

## INSTRUCTORS

### UPPER SCHOOL

WILLIAM M. BEALS, A. B., *History*

MARY E. BLAIR, A. B., *French*

CHARLOTTE M. BOECKELER, *German*

MRS. K. E. CHERRY, M. C., *Art*

ANITA MILLARD CHURCHER, *Physical Training for Girls*

MARY G. CUMMINGS, A. B., A. M., *English*

GRACE DODGE, *Latin*

HANNAH DUTAUD, *Household Arts*

MRS. JENNIE ROBY GREENE, *Physics*

GRACE A. HOLMES, M. O., *Spoken English*

ANNE ELIZABETH JENKINS, A. B., A. M., *English*

HANS G. LEHRMAN, *Physical Training for Boys*

EDWARD W. MCCLUN, *Commercial Subjects*

PERCIVAL ROBERTSON, Ph. B., *Chemistry and Advanced Mathematics*

MRS. MARGERY FERRISS SEMPLER, A. B., *Botany*

GEORGE C. SWAFFORD, *Manual Training*

MRS. OELLA C. WEBSTER, A. B., *Algebra, Geometry*

### LOWER SCHOOL

GRACE KING LEE, *Kindergarten*

MRS. LOUISE TEBBETS SHUTT, *Assistant in Kindergarten*

MAY C. DAVIDSON, *Primary Grades*

MRS. MARGERY FERRISS SEMPLER, A. B., *Third Grade*

MRS. GRACE B. TIBBITTS, *Fourth and Fifth Grades*

MRS. WINNIFRED A. HUBBELL, *Sixth and Seventh Grades*

MRS. MAE MCGREGOR KAUFMAN, *Eighth and High School Preparatory*

WILLIAM E. MORGAN, JR., *French*

MRS. ANNA ROTH NEWBY, *German*

## EXECUTIVE STAFF

E. RUSSELL FIELD, *Business Manager*

MRS. ANNE BURGESS FIELD, *Dean of Home Department*

MAJ. GARNER E. HUBBELL, *Commandant of Cadets, Athletic Director*

WILLIAM E. MORGAN, JR., *Headmaster Younger Boys*

MRS. VIRGINIA THREADGILL, *Librarian*

## HISTORY

The Principia was founded in 1898. Its purpose was to provide a school for the sons and daughters of Christian Scientists, where the children might receive the best instruction in all studies not incompatible with the teachings of Christian Science.

The School opened in September, 1898, in a small rented office with an enrollment of sixteen. Since that time various changes have been made as the steady growth necessitated larger quarters, until in 1901 the present property was purchased by friends who have held it solely for the use of the School.

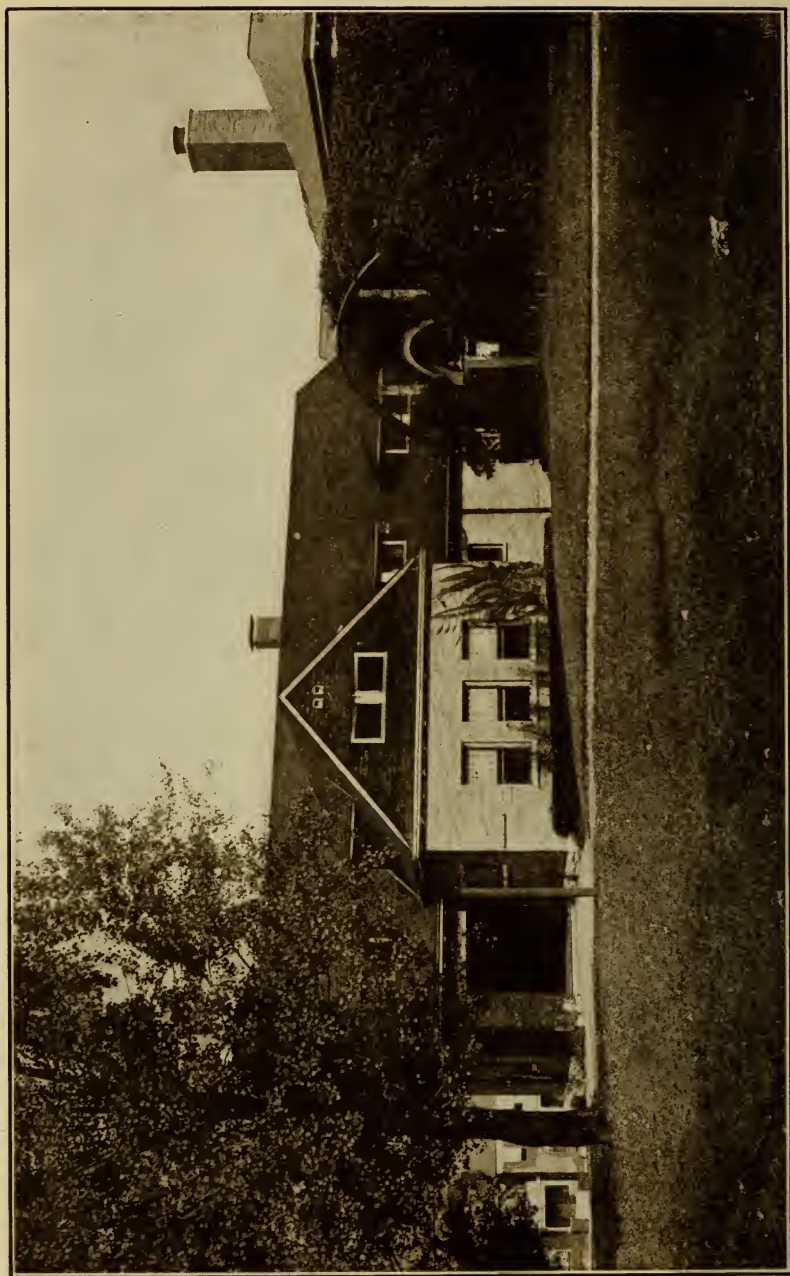
The Principia occupies an entire city block of over ten acres and has seven buildings, which, with equipment, represent a total valuation of over \$400,000. Two hundred and fifty pupils are in attendance, about one-half of whom are resident. Resident pupils come from all sections of the United States as well as from foreign countries.

The ownership of the School is vested in a Board of Trustees, in accordance with the state charter, which was granted in 1912. It must be clearly understood that the Principia is an independent enterprise, and is in no sense officially connected with the Christian Science movement.

## LOCATION

The Principia is situated on the northern boundary of Cabanne, one of the most beautiful residence districts of St. Louis. The campus comprises a park of ten acres, which affords the unusual combination of town comfort and country freedom. Hedges, trees and shrubbery give an air of quiet seclusion, while its easy accessibility from any part of the city makes possible all the conveniences of city life. Street cars which pass one corner of the





LOWER SCHOOL BUILDING



property go direct to the shopping and theater districts and to the Odeon Building in which all symphony concerts, grand opera, and many of the Christian Science lectures are held.

## **BUILDINGS**

Principia Hall is used as the Principal's residence, for administrative and social purposes, and provides dormitory accommodations for a limited number of girls.

The Lower School Building contains rooms for kindergarten, primary, intermediate and grammar grades. The second floor is used as a dormitory for girls.

The Upper School Building contains the recitation rooms of the Upper School, chemical, physical, and biological laboratories, the library, and departments of manual training and of household arts.

Kimball House, a large dormitory for boys, was constructed in 1911 and is modern in every detail. The building also contains a well equipped lunch room for day pupils and the cooking room of the domestic science department.

Colonial Hall, built end to end with Kimball House, is the largest of our dormitories for girls, and contains the dining rooms used by resident pupils.

The Bungalow, a very attractive two-story house, is the home of the younger boys. This building is in charge of an instructor and his wife.

The Gymnasium, built in 1910, is large and well equipped with standard gymnastic apparatus, basketball court, swimming pool, bowling alley, stage, and separate locker rooms for boys and girls.

## ADMISSION

The Principia is a co-educational school especially provided for the children of Christian Scientists, and no others are accepted. Every applicant must present a testimonial of good moral character and courteous behavior from his last teacher and furnish as reference the names of a teacher or registered practitioner of Christian Science and one of the Readers of the Church attended by the parents. Such reference should be made only to those who can vouch for the good standing of the parents as Christian Scientists in the field in which they live and who have a sufficient knowledge of the child, from the standpoint of moral character, to recommend him as a desirable companion for other boys and girls. Only normal, honest, moral, well-bred children are acceptable as pupils. Should a pupil prove to be undesirable in these respects, the School reserves the privilege of asking that he be removed. If this occurs the tuition will not be refunded.

Application blanks for admission to The Principia may be found in the back of the prospectus, or will be sent upon request. These blanks should be carefully and completely filled out before mailing.

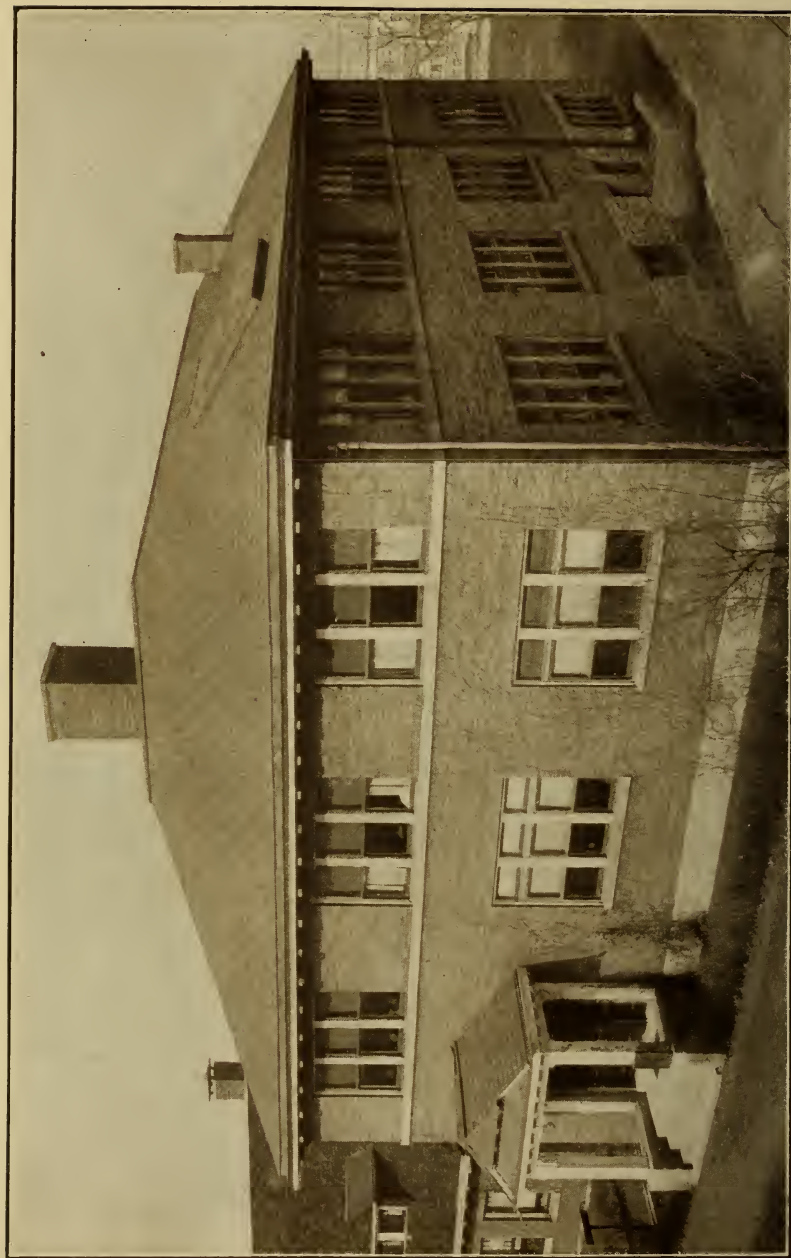
Upon the receipt of satisfactory letters from those endorsing an applicant, parents will be notified and requested to make the reservation deposit of twenty-five dollars. This deposit will be credited toward the first tuition payment if the applicant enters, otherwise the money will not be returned.

When an applicant is formally accepted a pamphlet will be forwarded to the parents giving a list of uniform and dress regulations, uniform measurement blanks and information concerning necessary clothing and equipment.

Upon entrance, students must present certificate of work successfully completed in schools previously attended. Such certificates, together with the recommendations of our teachers following







UPPER SCHOOL BUILDING

three days of preliminary school work at the opening of the fall term, will determine the class in which the pupil will be permitted to enroll.

The School reserves the right to admit into its first year academic class only those pupils whose general mental development has reached the point of maturity demanded by high school work, and whose preparatory work has been carefully and intelligently completed. Those pupils who come expecting to enter the first year academic class and are found unfitted for it because of poor preparation or lack of maturity, will be required to take a year of special work in the Upper School Preparatory class.

Provision is made for a limited number of resident pupils. Children under the age of thirteen years are not accepted in the home department. Parents who wish to arrange for their children to live with intimate friends or relatives in St. Louis and send them as day pupils may do so. The School does not recommend that this be done, nor does it assume any responsibility for the home life of such children.

The Principia maintains a Lower School, which includes grades from kindergarten to high school, and an Upper School, which includes four years of high school and two years of collegiate work. These last two years offer subjects presented in the first and second years of college.

Graduates of a four year high school course may enter our fifth year class, provided they can fulfill the entrance requirements as stated on page 24.

Applicants for admission to the last two years of Courses A and B must have completed high school, and must enroll in the fifth year class.

The Principia is on the list of accredited schools of the North Central Association of Colleges and Secondary Schools. Graduates of Principia are admitted to most of the colleges and universities of the country without examination.

## **GRADUATION**

Graduation from any course in Principia carries with it membership in the Alumni Association. Diplomas are given for the satisfactory completion of Courses A and B. Graduates from Courses C and D are entitled to certificates. Only members of the sixth year class are ranked as seniors, although special graduates join the senior class a few weeks before commencement. Only those graduates will be recommended to college who are considered fully able to do college work and who have maintained a high average of scholarship in each subject to be offered for college entrance credit.

## **THE PRINCIPIA PLAN**

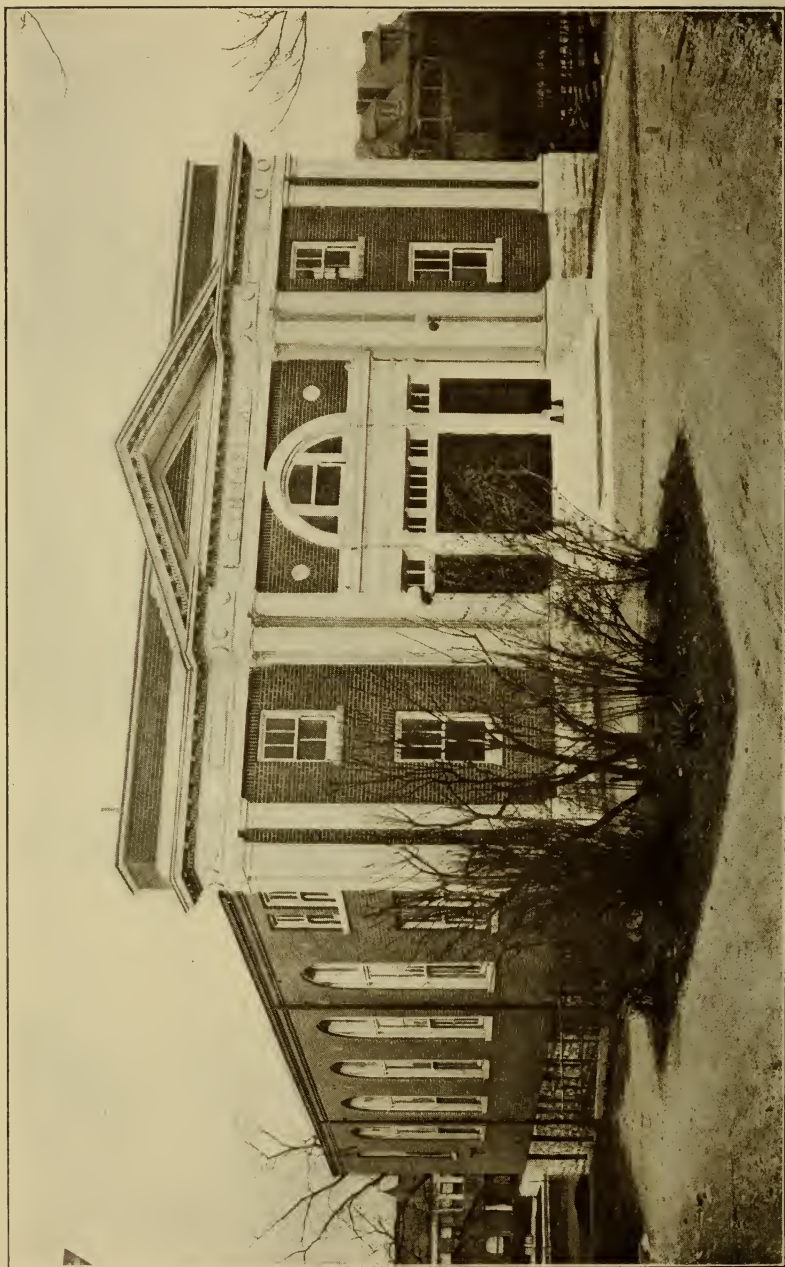
The aim of education today is to meet the need of the individual. It is recognized that the study of the student is no less important than the student's study; that the teacher's acquaintance with the pupil's temperament, disposition, and ambition is vitally important. Success comes from the realization that personal touch, sympathy and inspiration are essential to wise guidance.

The public school is handicapped by the fact that its classes are usually so large that the teacher cannot meet the need of each individual. Here the private school has the advantage. The constant association and friendship between teachers and pupils reveals the pupils' capabilities, and enables the teachers to direct more intelligently. The endeavor to conform the many to a common mould gives place to the endeavor to discover the pupil to himself and to lead him out of present limitations into the largest and noblest selfhood.

The purpose of education is not primarily that a certain amount of information must be absorbed by the student, but that his character and mental processes must be established on a truthful basis.







GYMNASIUM

Whatever knowledge is then acquired will be permanent and truthful. This is The Principia idea, its purpose and plan.

### **SCHOOL ORGANIZATION**

The entire school from the kindergarten through the academic department is divided into groups, each of which is in charge of a group counselor who keeps in touch with the work of the pupils under his charge. In the academic department instruction is given by subject teachers, to whom the pupils pass at the different periods. The groups are small and the aim is to bring the group counselor into intimate relations with the students so that natural tendencies may be studied and encouraged. A pupil is advised to consult the group counselor freely about his studies and the group counselor's relation to the student is that of preceptor or advisor.

### **LOWER SCHOOL**

The Principia has a Lower School, offering standard work in all the lower grades from kindergarten through eighth grade and a supplementary year, known as Upper School Preparatory grade. The work of the last year is designed for those particular pupils who have completed or nearly completed eighth grade, and yet are not ready for Upper School work. As the courses offered are in accord with the highest standards of the day, they need no description.

The advantage of the private school is fully as apparent in the Lower as in the Upper School. Careful individual attention to a pupil's work, familiarity with his traits of character, wholesome surroundings and the right kind of playmates are all found at Principia. Day pupils of the Lower School may play on the School campus until five o'clock in the afternoon, if the parents so desire. Such play is supervised only in a general way.

## COURSE OF STUDY—UPPER SCHOOL

The Principia offers the following courses of study:

Course A—Four years of college preparation followed by two years of collegiate work.

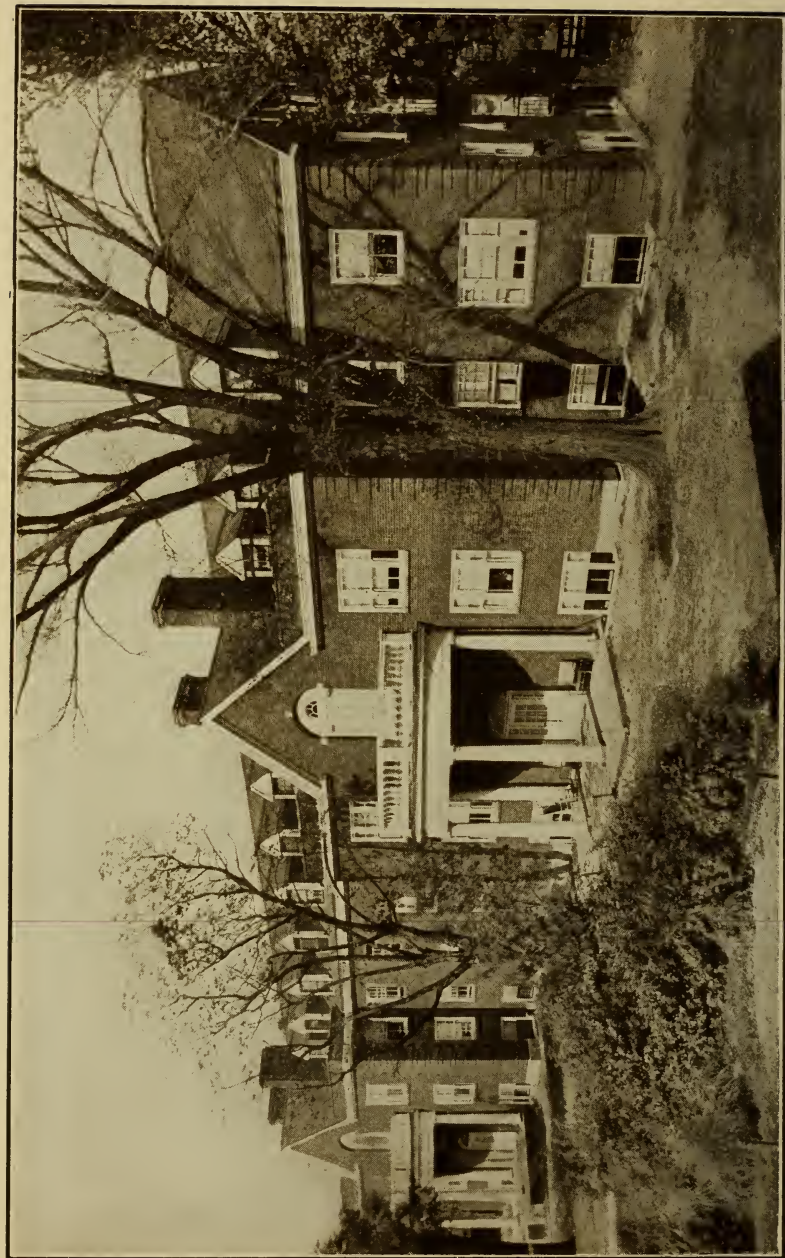
Course B—The “Regular” six year course, planned for those who do not expect to complete college work, but who wish two years of more advanced study than is offered in the usual preparatory schools. These added two years result in a stronger self-control, a broader culture, and a mental maturity which better fit our pupils to take upon themselves the responsibility of life in the business and social world.

Course C—A Commercial Course in accord with the most modern methods. The aim is to provide for those who do not expect to go to college and who wish practical and theoretical training in commercial subjects.

Course D—A special course designed to meet the need of those who wish to complete four years of academic study and at the same time specialize in music or in domestic science. Special music pupils are required to practice two hours a day and to study with some teacher whose work is approved by the School. The School maintains no department of music. This work is done with private teachers. Special domestic science pupils are required to devote ten hours a week to this subject.







KIMBALL HOUSE

COLONIAL HALL

## FIRST ACADEMIC

<i>Course A</i>	<i>Periods</i>	<i>Course B</i>	<i>Periods</i>
*English I . . . . .	5	*English I . . . . .	5
*Algebra I . . . . .	5	*Algebra I . . . . .	5
*Latin I . . . . .	5	*Latin I . . . . .	5
*History I . . . . .	5	*History I . . . . .	5
*Spoken English . . . . .	2	*Spoken English . . . . .	2
Art . . . . .	2	Manual Training . . . . .	2
Manual Training . . . . .	2	Art . . . . .	2
Sewing . . . . .	2	Sewing . . . . .	2
Cooking . . . . .	1	Cooking . . . . .	1
*Physical Training . . . . .	2	*Physical Training . . . . .	2
<i>Course C</i>	<i>Periods</i>	<i>Course D</i>	<i>Periods</i>
*English I . . . . .	5	*English I . . . . .	5
*Algebra I . . . . .	5	*Algebra I . . . . .	5
*Commercial Arithmetic . . . . .	5	*Latin I . . . . .	5
*Spelling . . . . .	5	*Music or Domestic	
*Penmanship . . . . .	5	Science . . . . .	10
Manual Training . . . . .	2	*Spoken English . . . . .	2
Art . . . . .	2	Art . . . . .	2
Sewing . . . . .	2	Sewing . . . . .	2
Cooking . . . . .	1	Cooking . . . . .	1
*Physical Training . . . . .	2	*Physical Training . . . . .	2

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\*Studies so marked are required in the years in which they appear in the Course of Study.

## SECOND ACADEMIC

<i>Course A</i>	<i>Periods</i>	<i>Course B</i>	<i>Periods</i>
*English II . . . . .	5	*English II . . . . .	5
*Plane Geometry . . . . .	5	*Plane Geometry . . . . .	5
*Latin II . . . . .	5	*Latin II . . . . .	5
French I . . . . .	5	French I . . . . .	5
German I . . . . .	5	German I . . . . .	5
History II . . . . .	5	History II . . . . .	5
Spoken English . . . . .	2	Spoken English . . . . .	2
Art . . . . .	2	Art . . . . .	2
Sewing . . . . .	2	Sewing . . . . .	2
Cooking . . . . .	1	Cooking . . . . .	1
*Physical Training . . . . .	2	*Physical Training . . . . .	2
<i>Course C</i>	<i>Periods</i>	<i>Course D</i>	<i>Periods</i>
*English II . . . . .	5	*English II . . . . .	5
*Modern Language . . . . .	5	*Latin II . . . . .	5
*Bookkeeping . . . . .	10	*Modern Language . . . . .	5
*Commercial Geography . . . . .	5	*Music or Domestic	
Spoken English . . . . .	2	Science . . . . .	10
Art . . . . .	2	Spoken English . . . . .	2
Sewing . . . . .	2	Art . . . . .	2
Cooking . . . . .	1	Sewing . . . . .	2
*Physical Training . . . . .	2	Cooking . . . . .	1
		*Physical Training . . . . .	2

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\*Studies so marked are required in the years in which they appear in the Course of Study.







BUNGALOW

### THIRD ACADEMIC

<i>Course A</i>	<i>Periods</i>	<i>Course B</i>	<i>Periods</i>
*English III . . . . .	5	*English III . . . . .	5
*Solid Geometry (one semester) . . . . .	5	Solid Geometry (one semester) . . . . .	5
*Intermediate Algebra (one semester) . . . . .	5	Intermediate Algebra (one semester) . . . . .	5
Latin III . . . . .	5	Latin III . . . . .	5
French II . . . . .	5	French II . . . . .	5
German II . . . . .	5	German II . . . . .	5
Spanish I . . . . .	5	Spanish I . . . . .	5
History III . . . . .	5	History III . . . . .	5
*Physics . . . . .	7	*Physics . . . . .	7
Art . . . . .	2	Art . . . . .	2
Sewing . . . . .	2	Sewing . . . . .	2
Cooking . . . . .	1	Cooking . . . . .	1
*Physical Training . . . . .	2	*Physical Training . . . . .	2
<i>Course C</i>	<i>Periods</i>	<i>Course D</i>	<i>Periods</i>
*English III . . . . .	5	*English III . . . . .	5
*Modern Language . . . . .	5	*Modern Language . . . . .	5
*Bookkeeping . . . . .	10	*History III . . . . .	5
*Physics or Stenography . . . . .	7	*Music or Domestic Science . . . . .	10
*Typewriting . . . . .	5	Art . . . . .	2
Art . . . . .	2	Sewing . . . . .	2
Sewing . . . . .	2	Cooking . . . . .	1
Cooking . . . . .	1	*Physical Training . . . . .	2
*Physical Training . . . . .	2		

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\*Studies so marked are required in the years in which they appear in the Course of Study.

## FOURTH ACADEMIC

<i>Course A</i>	<i>Periods</i>	<i>Course B</i>	<i>Periods</i>
*English IV . . . . .	5	*English IV . . . . .	5
Trigonometry (one semester) . . . . .	5	Trigonometry (one semester) . . . . .	5
Advanced Algebra (one semester) . . . . .	5	Advanced Algebra (one semester) . . . . .	5
Latin IV . . . . .	5	Latin IV . . . . .	5
French III . . . . .	5	French III . . . . .	5
German III . . . . .	5	German III . . . . .	5
Spanish II . . . . .	5	Spanish II . . . . .	5
*History IV . . . . .	5	*History IV . . . . .	5
Physical Geography . . . . .	5	Physical Geography . . . . .	5
Chemistry . . . . .	7	Chemistry . . . . .	7
Business Law (one semester) . . . . .	5	Business Law (one semester) . . . . .	5
Physics (one semester) . . . . .	5	Physics (one semester) . . . . .	5
Art . . . . .	2	Art . . . . .	2
Sewing . . . . .	2	Sewing . . . . .	2
Cooking . . . . .	2	Cooking . . . . .	1
*Physical Training . . . . .	2	*Physical Training . . . . .	2
 <i>Course C</i>		 <i>Course D</i>	
<i>Periods</i>		<i>Periods</i>	
*English . . . . .	5	*English IV . . . . .	5
*Modern Language . . . . .	5	*Modern Language . . . . .	5
*Commercial Law . . . . .	5	*History IV . . . . .	5
*History IV . . . . .	5	*Music or Domestic Science . . . . .	10
*Chemistry or Stenogra- phy . . . . .	5	Art . . . . .	2
*Typewriting . . . . .	5	Sewing . . . . .	2
Art . . . . .	2	Cooking . . . . .	1
Sewing . . . . .	2	*Physical Training . . . . .	2
Cooking . . . . .	2		
*Physical Training . . . . .	2		

\*Studies so marked are required in the years in which they appear in the Course of Study.



## NOTES ON CURRICULUM

To successfully complete the four academic years of the Upper School in Courses A, B, and C, a pupil must have a total credit of sixteen units.

A unit is the equivalent of five periods a week for one year's work.

Students electing Course D must offer twelve units in addition to the specified work in either Domestic Science or Music.

All pupils, except those of Course C are required to have credit for four years of language work, two of which must be Latin. Commercial Students may elect four years of modern languages. In no case will credit be given for less than two years of a language.

Special permission must be obtained from the Principal if a pupil wishes to take more than the prescribed number of studies. Such permission is given only when a pupil is doing excellent work.

### DESCRIPTION OF UPPER SCHOOL SUBJECTS

#### LATIN

##### LATIN I

Smith's Latin Lessons.

##### LATIN II

Caesar's Gallic War, Books I-IV. Sight translation.

Prose: Bennett's New Latin Composition.

##### LATIN III

Cicero—Four Orations against Catiline, The Manilian Law, Archias. Sight translation, from Sallust's Catiline.

Prose: Bennett's New Latin Composition. Selections from Nepos' Lives.

##### LATIN IV

Virgil—Aeneid, Books I-VI.

Connected prose.

## ENGLISH

The plan of the literature course for the four academic years is chronological, beginning with Old Testament and Greek literature, and ending with the literature of the Nineteenth Century. The college entrance requirements in both reading and study are met and outside reading is required.

Wooley's Handbook of Composition is used, and oral and written themes are required in all four years.

The English department aims to develop appreciation of good literature and freedom of expression.

### ENGLISH I

Old Testament Stories.

The Odyssey.

Beowulf.

Chaucer's Prologue.

*Supplementary Reading:*

Old English ballads, stories from Chaucer, etc.

Wooley's Handbook of Composition. Oral and written themes.

### ENGLISH II

*Shakespearian and Puritan Periods.*

As You Like It.

Twelfth Night.

Macbeth.

Milton's Minor Poems.

*Supplementary Reading:*

Other plays of Shakespeare, and the works of Elizabethan and Puritan authors.

Wooley's Handbook of Composition. Oral and written themes.

### ENGLISH III

*Classical and Romantic Periods.*

Swift's Gulliver's Travels.

Fanny Burney's Evelina.

Pope's The Rape of the Lock.

Jane Austen's Pride and Prejudice.

Poems of Wordsworth, Coleridge, Byron, Shelly, Keats.

Washington's Farewell Address and Webster's Bunker Hill Oration.





GYMNASIUM

UPPER SCHOOL BUILDING  
ATHLETIC FIELD

LOWER SCHOOL BUILDING

*Supplementary Reading :*

Addison's Spectator, Poems of Scott, Arnold, Rossetti, Morris, etc.

Oral and written themes.

**ENGLISH IV**

*Nineteenth Century Period.*

Emerson's Essay on Manners.

Tennyson's The Coming of Arthur, The Holy Grail, The Passing of Arthur.

Browning's Selected Poems.

Ruskin's Sesame and Lilies.

Arnold's Sohrab and Rustum and the Forsaken Merman.

*Supplementary Reading :*

A novel by Dickens, one by Thackeray, one by George Eliot, an essay of Carlyle's.

Oral and written themes.

**MODERN LANGUAGE**

**FRENCH I**

Conversation based on the affairs of every day life and on easy selections read. Fraser and Squair, Shorter French Course, pp. 1-58; Méras, Le Premier Livre. Frequent exercises are given in dictation and in the memorizing of prose and poetry. Verbs are studied with the aid of verb blanks.

**FRENCH II**

Fraser and Squair, Shorter French Course, pp. 58-134; Méras, Le Second Livre; Labiche and Martin, Le voyage de M. Perrichon; Compayré, Yvan Gall; Daudet, Neuf contes choisis. Dictation, memorizing, and the study of irregular verbs are continued.

**FRENCH III**

Fraser and Squair, Shorter French Course, pp. 134-260; Koren, French Composition; Sandeau. Mlle. de le Seiglière; Moffett, Lectures historiques; Bazin Les Oberlé; Pailleron, Le monde ou l'on s'ennuie; irregular verbs; memorizing; idioms; dictation; written summaries.

## SPANISH I

Conversation based on the affairs of every day life and on easy selections read. H. Marion y P. J. Des Garennnes, *Introducción a la Lengua Castellana*; DeVitis, *Spanish Grammar*; *Short Stories*.

## SPANISH II

Grammar and conversation continued. More advanced reading and composition. Alarcón, *El Capitán Veneno*; Valero, *El pájaro verde*.

## GERMAN I

Conversation based on the affairs of every day life in the school room and at table. Bacon's "Elements of German," pp. 1-70. Mueller and Wenckebach's "Glück Auf." Questions and answers in German, translation, memorizing of short poems and familiar songs. Dictation.

## GERMAN II

Fraser and Van der Smissen Grammar, pp. 80-174. Next year's class will finish Bacon's Elements of German instead of Van der Smissen. Holzwarth's "Gruss aus Deutschland." Questions and Answers in German, based on text read; translation, memorizing; conversation and dictation.

Second Semester—Spyri's "Rosenresli"; written exercises. Verbs studied with the aid of blanks. Supplementary reading, "Aus Nah und Fern."

## GERMAN III

Fraser and Van der Smissen German Grammar, Bacon's German Composition based on grammatical essentials and idiomatic phrases finished. Storm's "Immensee," Hillern's "Hoher als die Kirche," Gertacker's "Germelshausen." Free reproduction of these stories; sight translation and dictation; written summaries. Supplementary reading, "Aus Nah und Fern."







PRINCIPIA CADETS



## HISTORY

### HISTORY I

*Ancient.*—Stress is laid on cause and effect. A thorough review is given at the close of the year's work. Text to be announced.

### HISTORY II

*Medieval and Modern.*—In addition to the work in this subject one day in each week is given to the study of current history. The Literary Digest is used. Text to be announced.

### HISTORY III

*English History.*—Not to be given in 1916-1917.

### HISTORY IV

*United States.*—The Constitution and the "Critical Period" are emphasized. One day in each week is given to the study of current history, through the medium of the Literary Digest. "History of the American People," by Muzzey, and "Government in the United States," by Garner, are used as texts.

## MATHEMATICS

*Elementary Algebra.*

*Plane Geometry.*—Wentworth-Smith Revised. Five books of plane geometry, including rectilinear figures and circles, congruent and similar figures, proportion, areas of polygons, and measurements of circles. Special stress is laid on the solving of problems and the demonstration of propositions not previously studied.

*Solid Geometry.*—One Semester.—The course covers the usual theorems in solid geometry, including those dealing with spherical triangles and volumes. As much time as possible is given to the solution of problems. This course is intended to develop the student's ability in logical reasoning. If at any time in the course the student is deficient, due to poor preparation in plane geometry, he will be required to drop the course, and take a review course in plane geometry.

*Intermediate Algebra.*—One Semester.—Hawkes' Intermediate Algebra. A thorough review of elementary algebra. Equations through quadratics, inequalities, involution and evolution, theory of exponents, radical expressions, progression,

variables and limits. Special attention is given to the equation in all its forms, review and advanced work on graphical solution, and the solution of practical problems correlating algebra with the other sciences, are included.

## NATURAL SCIENCE

*Physics*.—The student covers work in the following subjects: Metric system, mechanics (fluids and solids), heat, sound, light, magnetism, and electricity. Forty experiments are required. The text in use is the "First Principles of Physics," by Carhart and Chute. *Wireless Telegraphy* is studied in connection with the work in Physics. A completely equipped station gives opportunity for practical work. The Code is taught and practice is given in sending and receiving messages. Elective for third and fourth academic.

*Chemistry*.—Prerequisite.—Physics and two years of mathematics. The more common elements are studied systematically by groups. The more important theory of modern chemistry is studied and constantly applied. Close correlation is made between the laboratory and recitation work. Time, 3 periods recitation, 2 double periods laboratory work.

*Physical Geography*.—May not be given in 1916-1917.

## COMMERCIAL COURSE

*Arithmetic*.—Text: Complete Business Arithmetic, Van Tuyl. This study is intended to fit the student for business accounting. A thorough knowledge of elementary arithmetic is a prerequisite. Especial attention is paid to business forms, speed and accuracy. The text-book is completed in the course of one year's study.

*Bookkeeping*.—Text: Modern Illustrative Bookkeeping. We aim to teach pupils the principles and best methods used today. The pupils buy, sell, write letters, keep a bank account, make notes and drafts, and become familiar with the most important books and methods used in retail, commission, wholesale, and manufacturing businesses. From the beginning the student handles papers required in the actual business.





CADETS IN SERVICE UNIFORM



*Geography*—Text: Commercial Geography, Brigham. The world's animal, vegetable and mineral products are studied with reference to their geographical location, method of production and the part played by each in making up the commerce of nations. Important commodities, centers of general industry, transportation, and government relations in connection with commercial activities in the United States are studied in detail.

*Commercial Law*—Text: The Elements of Business Law, Hufcutt. Business procedure, agreements, contracts, corporations, relations of producer to consumer, and the ordinary knowledge that a letter writer and office manager should have at hand are presented.

*Shorthand I*—Texts: Gregg Shorthand Manual, Hints and Helps and Gregg Writer. A great deal of class dictation is given and much outside practice required. By the end of the first year a pupil must be able to take five minutes' dictation of ordinary business letter matter at seventy-five words a minute.

*Shorthand II*—Texts: Gregg Speed Practice and Advanced Practice. Additional dictation on unpracticed matter selected by the teacher. At the end of this year pupils should be able to take from dictation six hundred words of solid matter in five minutes.

*Typewriting I*—Text: Rational Typewriting, Gregg Publishing Co. The work of the two semesters covers Lessons I-XXVII, inclusive, with some supplementary work. Finger exercises, manifolding, tabulating, machine dictation, and transcription of Gregg Writer Plates.

*Typewriting II*—At the end of the second semester pupils must be able to transcribe Business Letters, new dictation taken in shorthand at seventy-five to a hundred words a minute; literary articles from dictation and Gregg Writer Plates and some legal work. The mimeograph, advanced tabulating, machine dictation, and copying are also given attention.

*Office Training*—Text: Office Training for Stenographers, Gregg Publishing Co.

## REQUIREMENTS FOR ADMISSION TO ADVANCED COURSES

Students who fulfill the following requirements may be admitted to the College Course or to the fifth year of the Regular Course:

First—Completion of four years of Academic work at The Principia, or,

Second—Graduation from an accredited High School or Preparatory School with credit in the following subjects:

English . . . . .	3 units
First Foreign Language (Latin recommended) . . . . .	2 units
Second Foreign Language . . . . .	2 units
History . . . . .	1 unit
Mathematics (Algebra and Geometry) . . . . .	2 units
Science or additional unit in First Foreign Language . . . . .	1 unit
Optional . . . . .	4 units
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Total . . . . .	15 units

For optionals the student may select:

Third Foreign Language . . . . .	2, 3, or 4 units
History . . . . .	1, 2, or 3 units
Mathematics . . . . .	$\frac{1}{2}$ , 1, or 2 units
Physical Geography . . . . .	1 unit
Physics . . . . .	1 unit
Chemistry . . . . .	1 unit
Botany . . . . .	1 unit
Vocational subject . . . . .	1 unit

Conditions and Deficiencies.—A student may be admitted to the first year of the college course if he is deficient in not more than one entrance subject. This deficiency must be made up before he enters the second year.

A unit is the equivalent of a subject pursued five forty-minute periods a week for at least thirty-six weeks, but in the case of physical and biological science and vocational subjects two or more of the periods each week must be double laboratory periods.

By a vocational subject is meant: bookkeeping, stenography, domestic science, manual training, agriculture, etc.







VOLLEY BALL

## SUBJECTS OF INSTRUCTION IN THE COLLEGE AND REGULAR COURSE

English	Course A	5 hours*	1 semester	Composition and rhetoric
English	Course B	5 hours	1 semester	American Literature
English	Course C	3 hours	2 semesters	English Literature
English	Course D	3 hours	1 semester	
English	Course E	3 hours	1 semester	
Modern Lang.	Course A	5 hours	2 semesters	Elementary French and German
Modern Lang.	Course B	3 hours	2 semesters	Intermediate French and German
Modern Lang.	Course C	3 hours	2 semesters	Advanced French and German
Modern Lang.	Course D	3 hours	2 semesters	Continues Course C.
Modern Lang.	Course E	3 hours	2 semesters	Elementary Spanish
Modern Lang.	Course F	3 hours	2 semesters	Intermediate Spanish
Classical Lang.	Course A	5 hours	1 semester	Latin A
Classical Lang.	Course B	5 hours	1 semester	Latin B
Classical Lang.	Course C	3 hours	2 semesters	Latin C
Classical Lang.	Course D	3 hours	2 semesters	Latin D
Classical Lang.	Course E	5 hours	1 semester	Greek I
History	Course A	3 hours	2 semesters	European
History	Course B	3 hours	2 semesters	American
Mathematics	Course A	3 hours	1 semester	Solid Geometry
Mathematics	Course B	3 hours	1 semester	College Algebra
Mathematics	Course C	3 hours	1 semester	Plane Trigonometry
Mathematics	Course D	2 hours	1 semester	Spherical
				Trigonometry
Mathematics	Course E	3 hours	1 semester	Analytical Geometry
Mathematics	Course F	3 hours	1 semester	Differential and Integral Calculus
Natural Science	Course A	5 hours	1 semester	Botany
Natural Science	Course B	5 hours	2 semesters	Inorganic Chemistry
Natural Science	Course C	3 hours	2 semesters	Organic Chemistry (not in 1916).
Natural Science	Course D	5 hours	2 semesters	Qualitative Analysis

A student not prepared to take mathematics A, B, or C is required to take one of the following courses, which will not be credited towards hours for graduation :

Mathematics Course X 2 hours 1 semester Elementary Algebra.

Mathematics Course Y 2 hours 1 semester Plane Geometry.

Sixty hours' credit is necessary for graduation from the college and regular courses. Students will not be permitted to carry for credit, work amounting to more than fifteen hours a week.

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\*An hour is one 60-minute period of class work each week during a semester.

## ENGLISH

*Course A*—Five hours, 1 semester.

Composition and rhetoric. Wooley's Handbook of Composition.

*Course B*—Five hours, 1 semester.

A Survey of American Literature.

Texts: Long's American Literature and Page's The Chief American Poets. Much outside reading is required.

*Course C*—Three hours, 2 semesters.

A Survey of English Literature. Long's English Literature and Holt's The Leading English Poets, are used as text-books.

Papers are required, summing up the outside reading.

*Course D*—Will not be presented in 1916-1917.

*Course E*—Will not be presented in 1916-1917.

## CLASSICAL LANGUAGES

### GREEK

*Elementary Greek*.—Intended for students who have studied neither Latin nor Greek in the schools where they were prepared. Thorough drill in forms and in fundamental principles of syntax, by daily written and oral exercises. Stress laid on the early acquisition of vocabulary with a view to taking up as soon as possible the reading of some easy Greek. Five hours, 1 semester, 5 credits.

### LATIN

*Latin A*—Cicero's Orations.—Open to students entering with two entrance units. Six Orations of Cicero, Sallust's Catiline, connected prose; training in syntax and forms of the Latin language. Three hours, 2 semesters, 6 credits.

*Latin B*—Virgil's Aeneid, Books I-VI and Ovid. Prerequisite, three entrance credits in Latin. Translation. Study of forms, prosody, and syntax. Connected prose. Three hours, 2 semesters, 6 credits.

*Latin C*—Prerequisite, Latin B.—Livy, Books XXI, XXII; Cicero, De Amicitia; selections from Horace. Three hours, 2 semesters, 6 credits.

*Latin D*—Prerequisite, Latin B.—Horace, Odes and Satires. Connected prose. Three hours, 1 semester, 3 credits.







PRINCIPIA TAKING FIRST AND THIRD IN 100-YARD DASH



## MODERN LANGUAGE

*French A*—For students who have entered the college without French.—Fraser and Squair's Shorter French Course, pp. 1-134; Méras, *Le Premier Livre* and *Le Second Livre*; Labiche and Martin, *Le voyage de M. Perrichon* or *La poudre aux yeux*; Halévy, *L'Abbé Constantin*; Daudet, *Contes*.

*French B*—Prerequisite, Course A or its equivalent.—Fraser and Squair's Shorter French Course completed; Koren, *French Composition*; Moffett, *Lectures historiques*; About, *Le roi des montagnes*; Loti, *Le Pêcheur d'Islande*; Dumas, *La question d'argent*.

*French C*—Prerequisite, Courses A and B or their equivalent.—Borel, *Grammaire française*; François, *Advanced French Prose Composition*; Balzac, *Le curé de Tours*; Hugo, *Quatre-vingt*; Rostand, *L'Aiglon*; LaFayette, *La princesse de Clèves*; France, *Le crime de Sylvestre Bonnard*; Corneille, *Le Cid*; two plays of Molière.

*French D*—Will not be presented in 1916-1917.

*Spanish E*—For students who have entered the college without Spanish.—Reading, grammar, composition and conversation. Three hours a week both semesters.

*Spanish F*—Prerequisite, Spanish E or its equivalent.—Grammar, composition, conversation and reading from nineteenth century authors: books and periodicals. Three hours a week both semesters.

*German A*—For college students who enter the course without German.—Vos' "Essentials of German." Holzwarth's "Gruss aus Deutschland." Storm's *Immensee*; Krause's method edition, notes, questions in German only. Verbs studied with the aid of blanks.

*German B*—For students who enter college course with two credits from another school.—Bacon's *Composition* based on grammatical essentials and idiomatic phrases. Schiller's "Wilhelm Tell," Lessing's "Minna von Barnhelm." Written summaries.

*German C*—Stroebe and Whitney "Geschichte der deutschen Literatur." Intensive study of several modern German dramas, lyric poems and novels.

*German D*—Will not be presented in 1916-1917.

## COURSES IN MATHEMATICS

*Mathematics A*—Solid Geometry.—This course is designed for those students who offer only elementary algebra and plane geometry for entrance. It covers the usual theorems in solid geometry including those dealing with spherical triangles and volumes. As much time as possible is given to the solution of problems. The course is intended to develop the student's ability to reason logically. If at any time in the course the student is deficient, due to poor preparation in plane geometry, he will be required to drop the course, take a review course in plane geometry (*Mathematics Y*), and resume the course after he is properly prepared. Three hours recitation, one semester. Three hours credit.

*Mathematics B*—College Algebra.—The subjects studied in this course include: permutations and combinations, solution of higher equations including determinates, and the theory of equations. Much of the time is spent in the solution of problems. Especial emphasis is laid throughout the course on the explanation by the student in concise, accurate English of all symbols and operations studied. In this way the student acquires the ability to express himself clearly. Students entering this course must offer  $1\frac{1}{2}$  or 2 units in algebra. If at any time a student is deficient, due to insufficient preparation in elementary algebra, he will be required to drop the subject, take a review course in algebra (*Mathematics X*), and resume the subject after he is properly prepared. Three hours recitation, one semester. Three hours credit.

*Mathematics C*—Plane Trigonometry.—The usual subject matter, dealing with functions of angles, their interrelation, and the resulting applications in the solution of equations and triangles, is taught. The theory of logarithms is included. Emphasis is laid on those subjects that prepare for higher mathematics. At the same time, sufficient drill is given in the logarithms to make the student thoroughly familiar with their use and application. If the student desires special drill in the use of trigonometry in surveying, etc., he should take *Mathematics D*. Three hours, one semester. Three hours credit.

*Mathematics D*—Spherical Trigonometry.—This course includes the usual theorems for the solution of right and oblique spherical triangles. Constant drill is given in the solution of both plane and spherical triangles by means of logarithms. The course is designed for those who wish further drill in the solution of triangles than is given in Mathematics C. It is desirable for those who expect to study civil engineering, surveying or astronomy. The course will not be presented in 1916-1917. Two hours, one semester. Two hours credit.

*Mathematics E*—Analytical Geometry.—This course is designed to be taken with Mathematics F. These two courses will cover the higher mathematics necessary for those not specializing in mathematics, but who wish to study any branch of natural science. Students contemplating taking mechanical engineering or other engineering course requiring higher mathematics, will do well to elect this course in preparation for the higher work. The subjects studied include: locus problems, curve tracing and graphs, the straight line and circle. Prerequisites are Mathematics B and C. Three hours a week during the fall semester. Three hours credit.

*Mathematics F*—Calculus.—This course is a continuation of Mathematics E. The subjects studied include: differentiation, tangents, maxima and minima, rates, integration, areas and volumes. Three hours a week during the spring semester. Three hours credit.

*Mathematics X*—Elementary Algebra.—This course is designed for those who have had insufficient preparation in algebra to carry satisfactorily the prescribed mathematics. It does not count as credit for college work. Two hours, one semester. No credit.

*Mathematics Y*—Plane Geometry.—This course is designed for those who have had insufficient preparation in plane geometry to enable them to carry satisfactorily, the prescribed mathematics. It does not count as credit for college work. Two hours, one semester. No credit.

## NATURAL SCIENCE

*Science A*—General Botany.—General structure and relationship of plants. A study of representatives of the principal groups from the evolutionary standpoint. A certain amount of field work accompanies the laboratory study. Five hours, one semester. Five credits.

*Science B*—Elementary Inorganic Chemistry.—This course is designed to cover the simple chemistry of the common elements studied systematically by groups. The principles of modern chemistry are taught and continually applied. The student is trained to correlate similar facts. As a result, he gains the ability to make accurate predictions from careful deductive reasoning. One hour lecture, two hours laboratory, during both semesters. Eight hours credit.

*Science B 1*.—This course is parallel with Science B during the first semester. During the second semester, the practical application of elementary chemistry to household and commercial uses is presented. The course is not open to students who are going to continue the study of chemistry, or who expect to enter college. Time and credit same as for Science B.

*Science D*—Qualitative Analysis.—Prerequisite, Science B or its equivalent. Students whose work in Chemistry has been confined to a high school course will only be admitted on passing an examination equivalent to the final examination in Science B. This course is designed to develop accurate and thoughtful manipulation on the part of the student. Mere mechanical work is avoided. The lectures and recitations are on the principles involved in the laboratory operations. The reasoning ability of the student is developed. One hour lecture, or recitation, six hours laboratory work, each semester. Eight hours credit.

*Science C*—Elementary Organic Chemistry.—This course consists of lectures and recitations in simple organic chemistry. The course will not be taught in the year 1916-1917. Three hours recitation and lecture, each semester. Six hours credit.







FOOTBALL SQUAD



## HISTORY

*History A—European.*—History of Europe during the medieval and modern periods, dealt with in as broad and comprehensive a manner as is consistent with thoroughness of knowledge and definiteness of outline. Three hours, two semesters. Six credits.

*History B—American.*—History of the United States with special emphasis on the period since 1760. Three hours, two semesters. Six credits.

## ART

Art is optional for all pupils of the upper school. The work consists largely of freehand drawing, designing, water color painting, china decoration, illustrating, etc. The aim is to develop in the students an artistic appreciation of nature and art and a power to produce good drawings, designs, and pleasing color compositions. Personal help and criticism are freely given. Illustrated lectures and visits to the Art Galleries supplement the regular work. Talks on art history, including architecture, sculpture, and painting, are given. The development of good taste and refinement of expression are considered of paramount importance.

## MANUAL TRAINING

A course in manual training is begun in the fifth grade of the Lower School, and extends through the first year of the Upper School. In the latter year, the work is optional, covering bench and lathe work in wood, and is required of boys only. An experienced man teaches the grammar and academic pupils in this subject, the pursuit of which is so necessary to the complete development of every boy. Girls may receive this instruction if they also take sewing.

## HOUSEHOLD ARTS

Girls feel instinctively the need of this work and their natural interest leads them to pursue it whenever it is possible for them to do so. They learn to understand and appreciate the value of a well-made article and they realize that a knowledge of household arts will enable them to be better consumers, producers, and home-makers. It will enable them to buy wisely and economically, to select with wisdom and good taste the best and most appropriate clothing and the best food for the home and to meet the problems of the home in an orderly, systematic way for the good and comfort of all its members. Throughout the course, emphasis is placed, not so much upon quantity of work accomplished as on its quality, durability, and neatness.

One of the greatest needs of the present day is the cultivation of the appreciation of "home activities," thus dignifying labor, and which results in the unselfish, efficient home-maker. Girls in the Upper School may take cooking once a week, a one-hour-and-thirty-minute period. Sewing is given to the girls in the fifth, sixth, seventh, and eighth grades for forty-minute periods twice a week. The work in the fifth and sixth grades is very simple. In the seventh grade more construction work is given and the use of the sewing machine is taught. In the eighth grade, the work consists of the making of a cooking outfit and a simple wash dress. In the Upper School, girls are taught the making of undergarments, tailored and lingerie waists, a wash dress of linen or muslin, a wool dress, and simple coat suits, patching, mending, and millinery.





BASE BALL

## MILITARY TRAINING

The Principia is by no means a military school. We are firm believers in the value of military training when given in moderation and with a view to preparing our boys to fill their places in life as well-balanced men, awake to the necessity for systematized concerted activity.

Military work is included in the curriculum of The Principia because of its value as a medium for training boys in courtesy, obedience, self-control, promptness, neatness, and loyalty. Cadets are grouped into companies and officered by older cadets, who thus have a splendid opportunity to learn to discharge authority and assume responsibility in a just and efficient manner. No cadet may hold office who has not proven himself capable of assuming this responsibility. Our effort is to send into the world young men who are alert, honest, clean-minded and progressive, and who will take their place as positive factors for good in the community.

We have operated our military work for a sufficiently long time to convince us that a list of demerits for each offense is not necessary to maintain an efficient plan of training. We give credits for efficiency instead of demerits for delinquency. Each boy is held to a high standard of right in the performance of his duty. At the same time no effort is spared to make the life of cadets who live at the school, both homelike and attractive.

All boys in attendance at Principia, who are in or above the seventh grade, are required to wear the uniform and take part in this work.



Our military creed is possibly most clearly embodied in the words of President Schurman of Cornell as follows:

"Military training teaches the young man how to stand and walk and hold himself; it gives him vigorous out-of-door exercise so that gradually his chest expands and his muscles grow firm; it inures him to physical hardships; it disciplines him in orderliness, punctuality, accuracy and alertness; it endows the senses and the intellect with quickness, precision, and the habit of concentrated attention; it develops self-control as well as obedience to proper authority and resistance to improper; it accustoms the individual to co-operation and team work, while fostering comradeship, thus facilitating community life and lubricating social intercourse; and it prepares youth for better citizenship by constantly emphasizing the conceptions of duty and service. If wars were banished from our planet I would retain military training side by side with athletics as an instrument of physical education in our universities; and not only for its physical advantages, great as they are, but also for its moral, mental, social and civic effects and reactions."

—(*Everybody's Magazine.*)

## PHYSICAL TRAINING

The athletic life of the School centers around its gymnasium. Boys are required to take class instruction twice a week under the direction of a trained gymnast. This consists of apparatus work and other exercises such as are used in standard gymnasiums. Regular lessons in swimming are included. On the campus are three tennis courts and an athletic field which contains a one-fifth-mile cinder track. The boys participate in football, baseball, basketball, field sports, etc. They are coached by a competent instructor who is a member of The Principia staff. Only those boys are allowed to play football who bring a request from their parents that this be permitted and only those who maintain a satisfactory standard of scholarship are allowed to play on the organized athletic teams against other schools.







BASEBALL TEAM

In the fall and spring, boys must elect some out-of-doors sport and must report for practice each afternoon. Out-door athletics include football, baseball, tennis or track.

Physical training for the girls is under the direction of a specialist in this work. Apparatus, dumb bells, and Indian clubs are employed. Calisthenics and other exercises are given. All girls are expected to participate in this work. Their teacher also coaches the girls' basketball team and gives regular instruction in swimming. An extra fee is charged for dancing, which is taught in classes organized for this purpose.

With the exception of two afternoons of each week spent in the gymnasium, girls are required to spend one hour of each day in some out-door exercise, such as tennis, volley ball, or walking.

## **LIBRARY**

A growing library of over three thousand one hundred carefully selected volumes affords reference facilities and recreational reading for our pupils. The Principia library is very much larger than is usual in a school of this size. The library is also supplemented by a large number of books borrowed from the circulation department of the St. Louis Public Library. We endeavor to supply all books requested by pupils or teachers. The library is catalogued according to the Library of Congress plan with the decimal classification, which is the catalogue system now in use in the majority of public and college libraries. A trained librarian and an assistant endeavor at all times to meet the library needs of the School. Library hours cover the entire working day.

## **INDIVIDUAL INSTRUCTION**

Parents will be notified if for any reason it becomes necessary for a pupil to have private instruction in a subject. Such work is undertaken only with the permission of parents or guardian. The charge for private instruction is one dollar per hour. Since it means more work for very busy teachers, the Principal makes as few such requests as possible.

## **OF INTEREST TO PARENTS**

The parents of Principia students who live in or near St. Louis meet each month to discuss questions and topics connected with the work of the School. The meetings are well attended and the interest is keen. In this way fuller co-operation is brought about between the pupil, the teacher, the parent, and the School. With the exception of October, the regular meetings occur throughout the school year on the first Monday of each month. Parents residing in other cities are invited to time their visits to Principia so that they may be present at these gatherings.

Parents who may be considering the School for their boys or girls are invited to visit it for the purpose of becoming acquainted with the instructors, pupils and the method of instruction. Applications for admission should be filed as early as possible, as our accommodations are limited.

## **HOME LIFE**

In his biography of the famous President of Wellesley College, Prof. George H. Palmer records the following paragraph:—

\*“Throughout life, she thought herself fortunate in having chosen a co-educational college. The natural association of girls with boys in interests of a noble sort tends, she believed, to broaden their vision and to solidify their minds. . . . She did not think it made girls boyish, or boys girlish; but merely that it brought good sense and a pleased companionship to take the place of giddiness and sentimentality.” . . . “Prof. Hale, of Chicago, has well said: ‘It was Mrs. Palmer’s conviction that the normal form of education for both sexes is that in which the natural relations begun in the life of the home and the neighborhood, continued for the great majority in the life of the school, and inevitably existing in the later social life, are carried without break through the four years of higher intellectual work.’ ”

For such reasons as these and for many others, we believe in co-education. Our eighteen years’ experience shows it to be practicable, satisfactory, and advantageous. The boys, organized in a battalion, are in the care of the commandant of cadets and his assistant. They have regular hours, regular military duties, and their rooms are carefully inspected several times each day. The girls are divided into small groups, each group under the direct charge of a house mother who looks after their welfare outside of school hours. The home life of the girls is carefully regulated in order that daily, out-of-door exercise may be supplied even to the most studious. The study hours are carefully supervised and every effort is made to give the girls surroundings which are conducive to growth in womanhood. All the groups of girls are under the general care of the Dean of the Home Department to whom the house mothers are directly responsible.

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\*The life of Alice Freeman Palmer, published by Houghton, Mifflin Co., page 51.



The boys and girls take their meals together at small tables which accommodate seven or eight pupils. A member of the faculty, or one of the Juniors or Seniors has a place at each table. Attention is given to matters of table etiquette.

## **REGULATIONS FOR RESIDENT PUPILS**

### **MATTERS TO BE ATTENDED TO BEFORE LEAVING HOME.**

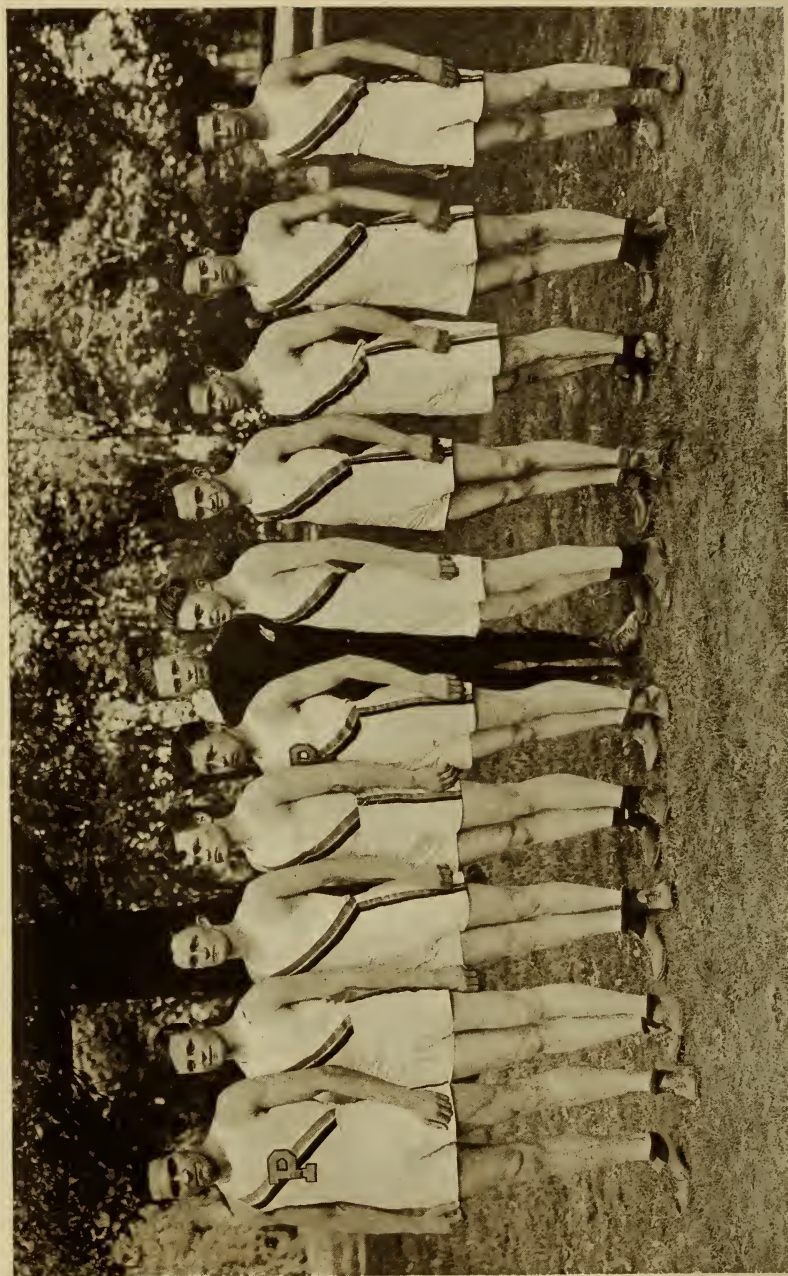
A pupil's surname and initials must be plainly stamped or painted on the end of his trunk, bags, and suitcases. Tags are insufficient. Unless this is done, the School will not be responsible for delay in sending baggage to pupil's room or for loss of same which may occur while in the school store room.

Parents should see that a pupil's teeth are thoroughly cared for before the school year begins. Visits to the dentist are difficult to arrange, involve charge for chaperonage in case of the girls and are disastrous to school work.

All clothing, hats, caps, books, athletic equipment, etc., brought from home must be marked with the pupil's full name. The only acceptable marking for clothing is a woven label. The "Cash" lettering is preferred. This may be ordered at any large department store, and as a period of ten days is required to secure these markers, it is best to place your order early. The usual price is two dollars a gross or one dollar and a quarter a half gross. Each pupil should bring with him one-half gross additional markers. The School is not responsible for unmarked articles.

Pupils should come provided with a Bible, Science and Health, and a Quarterly. The Journal, Sentinel, and Monitor are found in the School Library. Each pupil must furnish one pair of blankets, one comfort, six napkins and a napkin





TRACK TEAM

ring or clip, a bath robe, a shoe bag, and a laundry bag. All these articles must be plainly marked with the owner's name.

Pupils are required to be at school on the date specified in the yearly calendar. Failure to report promptly at beginning of Fall Term or at expiration of Christmas holidays, seriously handicaps the work. Any time so lost by the pupils must be made up on Saturdays after their return to school.

Notify the Business Manager of the day and hour of arrival and the name of the road, that arrangements may be made to meet pupils coming alone. Pupils will not be met on Sunday. In order to reach The Principia from the Union Station, take the Eighteenth Street car at the east end of the station; transfer on Washington Avenue to a Page Avenue car going west; leave the car at Belt Avenue (5500 block). The entrance to the School is on the northwest corner of Page Boulevard and Belt Avenue. The length of the ride from the station to the School is five and one-half miles. The street railway running time is about forty minutes. The St. Louis Transfer Company receives baggage checks at the Union Station and makes a special rate for the baggage of those coming to the School. The School number is 5539 Page Boulevard.

Parents are urged not to request that pupils return home or leave School on visits to other cities during the school term. Such permissions cannot be granted, except in the most urgent cases. The year is short and any such irregularity is undesirable.



The placing of pupils with congenial or helpful room-mates is given close attention. Individual wishes cannot always be consulted, since the good of the community must be considered first. The helpful co-operation so freely given by parents is greatly appreciated by those in charge of this work.

Parents are particularly requested not to send boxes of eatables at any time except the Christmas holidays. If this request is disregarded, boxes will be disposed of at the discretion of the instructor in charge.

Mail will be delivered at the close of the school session. Any important letter from the parents may be sent by special delivery in the care of the Principal to be delivered out of mail hours. Telegrams to pupils should be addressed in care of the Principal.

The question of cash allowance has been given much careful thought. It is deemed an essential part of our course of training to teach economy and the wise management of funds. The School will appreciate the co-operation of parents in the plan outlined. The allowance money intended by the parents for their children should be sent as a separate amount to the Business Manager by the first of each month. This sum will not appear on the regular ledger account. It is desired that parents make the allowance a modest one. It should, however, cover all incidentals such as theater tickets, church and Sunday-school contributions, car fare, stationery, postage stamps, and all purely personal expenses. Each pupil is provided with a check book







BOY'S BASKET BALL TEAM



GIRL'S BASKET BALL TEAM

and he draws his allowance on Friday afternoon or on Saturday morning at the business office as he would from a bank. He also keeps an account book. Training in exactness and wise expenditure is given. A copy of each month's expenses will be sent home regularly, in order that the parents may keep in touch with this work and aid with their wise and loving counsel. Parents should notify the Business Manager of any failure to receive a statement.

No money should be sent direct to pupils. All checks must be sent to the Business Manager and be made payable to The Principia.

Pupils shall not contract any bills or borrow any money without the consent of their parents given through The Principia.

All correspondence concerning pupils, both before and after entering the School, should be addressed to

Office of the Principal

The Principia

St. Louis, Mo.

The office will then see that the letter reaches the proper person. This holds good, except in payment of bills, in which case letters may be addressed to

Mr. E. Russell Field, Business Manager,

The Principia, St. Louis, Mo.

## CADETS

All resident pupils and all day pupils who are in or above the seventh grade, wear the School uniform. Uniforms are worn at all times, except by cadets of the fifth and sixth year classes. The latter are permitted to wear civilian clothes when off grounds. Boys who are too young for drill work do not wear the uniform. Day pupils will not be permitted to attend school or social functions, which take place on the School grounds, unless in the prescribed uniform.

The following is a list of the required uniforms, all articles of which must be ordered through the School.

Dress uniform (dark grey), dress blouse, trousers and cap.

Full dress uniform (formal occasions), dress blouse, white trousers, white web cross belts, brass breast plate and buckles.

Service uniform (olive drab), service blouse, two pair breeches, cap, olive drab leggings, olive drab flannel shirts.

Overcoat (blue), by the substitution of black buttons for brass ones, becomes appropriate for use with civilian clothing.

Gloves: knit service, buck-skin, and white dress.

Collars, black four-in-hand neck tie, belts.

The complete uniform as described above costs about \$75.00. When it is considered that a boy who is careful may wear the same outfit the second year, and in the case of the overcoat and dress uniform, even the third year, the expenditure is seen to be a decided economy.

Regulation gymnasium suit and shoes of uniform pattern are required and these must be purchased under the supervision of the Athletic Director.







TENNIS



SEWING HOUR

## GIRLS

Girls must wear the School uniform at all times during the school year, excepting Wednesday and Friday nights, and Saturdays and Sundays. The Girls' uniform is dark blue and is furnished through a reliable house in St. Louis. The cost of the uniform with two skirts is about nineteen dollars. White or blue navy blouses are worn in the place of the uniform waists during the warm weather. In order to secure uniformity, these blouses are ordered through the School.

A white crepe de chene uniform similar in design to the School serge uniform is also required. These uniforms are made in St. Louis and cost \$25.00. No other evening dress is permitted, except for juniors and seniors. Special regulations with regard to evening dress are made for juniors and seniors when invited to special occasions away from the grounds. For information concerning these regulations, write the Dean of the Home Department.

A detailed list of necessary articles for the girls' wardrobe will be sent when a pupil is accepted. Adherence to this list is required.

A plea must be entered that substantial clothing be furnished the girls. Delicate or flimsy material is very much out of place. Prolonged absence from home leaves such clothing with neither a neat nor a dainty appearance. Astonishing laundry bills and wonderment as to where the children's clothing has gone may be avoided by furnishing a plain, substantial wardrobe.

A hair dresser is in attendance each week at the School. The charge for work done will be rendered on the monthly account. A special word is

necessary about the care of the girls' hair. It is desirable for the hair to have careful attention and the price for shampooing is so modest that it adds but little to the expense. Cleanliness and general wholesomeness of appearance are enhanced by proper attention to the hair.

No purchases will be made ordinarily for the pupils through The Principia, with the exception of the uniform and regulation school blouses. All other purchases must be arranged for by sending money in advance to the School. Pupils must come with as full an outfit as possible. Strictly necessary shopping for girls may be done with a chaperone at an expense of fifty cents per hour, but shopping should be reduced to a minimum. Pupils are not allowed to return home for spring shopping nor may pupils leave the School during school hours for such purposes.

All costumes brought to the School by the girls must be acceptable to the Committee on Dress, which is composed of ladies from the Faculty and from the Board of Trustees. Day pupils wear the School uniform and while at School are subject to the same dress regulations as the resident pupils.

The girls are neither permitted to accept invitations from friends to leave the grounds nor to receive calls from friends, unknown to the School unless chaperoned by a member of our faculty. In order to avoid embarrassing situations, it is requested that parents place on file with the Dean of the Home Department, a list of those friends resident in St. Louis, or likely to visit the city, whose invitations they wish their daughter to accept.

## **SCHOOL SUPPLIES, EDUCATIONAL OUTING FUND, ATHLETIC TAX**

All necessary School expenses are outlined below. An annual charge is made at the beginning of the year to cover the cost of school supplies, including text books and stationery. The amount of this charge is apportioned according to grade.

Pupils taking manual training, sewing, cooking, art, physics or botany are charged with the exact cost of materials used.

All pupils working in the chemical laboratory are charged with a laboratory fee of \$10.00 a year to cover cost of material used. All breakage in the chemical or physical laboratories will be charged to the individual.

Educational Outing Fund. On entering, a deposit of \$10.00 for the year is required of each resident pupil and \$5.00 of each day pupil. During the year, pupils are sent to certain lectures, plays, concerts or outings, which are of a general cultural nature. The expense of this is charged to the Educational Outing Fund. Any unused balance in the fund is returned to the parents at the close of the school year.

In order that athletics may receive the necessary support, the Athletic Association no longer charges membership dues. Instead of this, each boy is charged with an annual tax of \$5.00, and each girl of \$2.50 for the support of athletic teams and the purchase of necessary accessories. Each boy and girl is required to participate in some form of athletics unless excused because of a written request from parents, so that all may benefit from the expenditure made in this important feature of the school activities.

Pupils who desire to remain at the School during the Christmas holidays may do so at a cost of \$10.00 a week for room and board.



## EXPENSE

Resident pupils must make a deposit of \$25.00 as soon as their applications are accepted. This will be deducted from the first half-yearly payment. Since our dormitory rooms are limited in number, we can only allot them to pupils whose parents agree to pay the full year's charge, even though the pupil fail to finish out the year.

### FIXED ANNUAL CHARGES

	Day Pupils	Resident Pupils	School Supplies
Kindergarten . . . . .	\$40.00	.....	....
Primary (First, Second and Third Grades) . . . . .	70.00	.....	3.00
Intermediate (Fourth and Fifth Grades) . . . . .	100.00	.....	3.00
Grammar (Sixth, Seventh, Eighth and Upper School Preparatory Grades) . . . . .	115.00	\$550.00	7.50
Upper School (First, Second, Third and Fourth) . . . . .	175.00	600.00	10.00
Fifth and Sixth years . . . . .	175.00	600.00	15.00
Educational Outing Fund . . . . .	5.00	10.00	....
Chemical Laboratory Fee . . . . .	10.00	10.00	....

Supplies used in Manual Training, Sewing, Cooking, Art, etc., charged at cost of material used.

Use of piano, etc., two hours or less, regular practice...\$20.00

Dancing in terms of twelve lessons (optional) . . . . . 6.00

Graduation fee for senior year . . . . . 10.00

Athletic fee—Girls \$2.50, Boys \$5.00.

The cost of private music lessons is borne by the parents by whom arrangements are made with the teacher. The usual prices are \$1.25 per lesson on the piano, \$1.50 per lesson on the violin, \$2.00 to \$2.50 per lesson for vocal instruction.

All checks should be payable to The Principia.

For resident pupils, one-half annual charge is payable September 15th and the balance is due January 1st.

No deduction will be made for unexpired time in case a resident pupil leaves for any cause before the completion of the year.







THE CHINESE LANTERN

Acted by Principia Pupils.      Setting by Sam Hume.

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A. C. CLAYTON & SONS PRINTING CO.  
211-213-215 LOCUST STREET  
SAINT LOUIS

**Application for Admission  
The Principia**

Date\_\_\_\_\_

Full name of candidate\_\_\_\_\_

Home address: Street\_\_\_\_\_ City\_\_\_\_\_ State\_\_\_\_\_

Date of birth\_\_\_\_\_

Name and address of school last attended\_\_\_\_\_

Grade\_\_\_\_\_ Length of attendance\_\_\_\_\_

Date of proposed entrance in The Principia\_\_\_\_\_

Course of Study desired \_\_\_\_\_

Name of registered practitioner as reference\_\_\_\_\_

Address: Street\_\_\_\_\_ City\_\_\_\_\_ State\_\_\_\_\_

Name of First Reader in local church as reference\_\_\_\_\_

If there is no church in your vicinity give name of another practitioner,

Address: Street\_\_\_\_\_ City\_\_\_\_\_ State\_\_\_\_\_

*I hereby apply for admission of*\_\_\_\_\_

(Full Name of pupil)

as a <sup>day</sup><sub>resident</sub> pupil for the school year 19\_\_\_\_\_ 19\_\_\_\_\_ and agree to pay the entire annual charge in accordance with the regular terms printed in the prospectus, twenty-five dollars at time of acceptance, one half of the fixed annual charge at date of entrance and the balance on or before January first.

\_\_\_\_\_  
Parent or Guardian

*Make drafts and checks payable to The Principia.*













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